

DREDGING NOTICE  
U.S. ARMY CORPS OF ENGINEERS  
ST. PAUL DISTRICT

NOTICE DATE: August 27 <sup>th</sup> , 2019	DREDGING CATEGORY: Imminent
MEETING DATE: If requested	MEETING TIME:
BOAT REQUIREMENT:	MEETING LOCATION:
DREDGE CUT NAME: Boulanger Bend	RIVER MILE: 820.4 – 821.3

HISTORIC DATA

Frequency: 37%	Avg. Quantity/Job: 53,765 yd <sup>3</sup>
Date Last Dredged: May 15 <sup>th</sup> , 2017	Avg. Quantity/Year: 19,750 yd <sup>3</sup>

SURVEY DATA

Date Surveyed: August 23<sup>rd</sup>, 2019  
Water Surface Elevation: 686.5  
Low Control Pool Elevation: 686.3  
Net Difference: + 0.2'  
5 Day River Forecast: Holding Steady

DREDGING DATA

Recommended Channel Width: 500  
Recommended Dredging Depth: 11 feet  
Estimated Quantity: 28,755 yd<sup>3</sup> and 557 yd<sup>3</sup> placement site access  
Type of Dredge: Contract Mechanical Plant 4  
Proposed Dredging Date: August 28<sup>th</sup>, 2019  
Estimated Duration: 19 dredging days  
Justification for Dredging: Channel is reduced to 150' between the 9.0' contours and closed between the 10.5' contours. On a recommended bend width of 500'.

MATERIAL PLACEMENT DATA

Proposed Placement Site: Lower Boulanger Placement Site  
Location: 2-821.1-LMT  
Site Characteristics: This is a historically used temporary placement site.

If you have any questions concerning this project, or if you would like to request an on-site meeting, please call me at (651) 290-5155

Dan Cottrell  
Dredging Manager

Pool 2, Boulanger Bend  
River Mile: 820.4 - 821.3  
Surveyed: August 23th, 2019  
Scale: 1" = 200'

ACCESS CUT

CUT-7

SHORE  
CENTER ACCESS  
SHORE

CUT-6

Boulanger Bend Lt. (821.1)

FIG 4s

Normally I number cuts  
upstream to downstream,  
this survey I did the opposite  
to focus the importance on  
cut 1. I still created the  
dredge notice upstream to  
downstream.

**CUT-3**

## CUT-5



**CUT-4**

The diagram is a complex mathematical structure, likely a graph or a network, with a grid of numbers and a series of red lines connecting them. The grid is composed of numbers from 0 to 15, arranged in a roughly rectangular pattern. The red lines form a complex web, connecting various numbers in a non-linear fashion. The diagram is titled "CUT-4" in a large, bold, black box at the top center. There are also some handwritten notes and symbols, including a plus sign at the top left and a "10" in a box at the bottom right. The overall appearance is that of a technical or mathematical drawing, possibly related to a specific problem or theorem.



CUT-1

CUT-2

CUT-3

Boulanger Towhead Light (820.5)

LAUNCH GROUNDED

820.5

FIG 4s